

The Structure of Gels. VI. Preparation of Gels
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Full translation.

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TEMPERATURE-TIME DEPENDENCE OF THE
STRENGTH OF PURE METALS. [1963] 9p 19refs
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Labs. Library as Boeing Trans. R78. When supply is
exhausted. Order from OTS or SLA \$1.10 63-20241

Trans. of Akademiya Nauk SSSR. Doklady, 1955,
v. 101, no. 2, p. 237-240.

DESCRIPTORS: *Metals, *Tensile properties, Fracture
(Mechanics), Loading (Mechanics), Temperature,
Aging (Materials), Degradation, Zinc, Aluminum,
Silver, Platinum, Tests, Heat of activation,

An investigation was made of the life of pure metals
over a broad range of temperatures and stresses. The
metals used were: zinc (99.94%) and platinum (99.92%).
The time T (in sec) elapsed from the moment of loading
to fracture of the specimen was measured as a function
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1945, v. 47, p. 106-109.

DESCRIPTORS: *Polymers, Hardening, Vapors,
Adsorption, Butenes, Butadienes, Acrylic resins,
Acrylonitriles.

In view of the effect that the non-polymerized low-mo-
lecular fraction of products of polymerization and
plasticizing substances exert on the transition from a
rubber-like to a glass-like state, experiments were
carried out with various volatile organic solvents intro-
duced into the polymers of butadiene and isobutene and
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DESCRIPTORS: *Rubber, Mechanical properties,
Elasticity.

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 SES RÉSIDUS. I. (Série Uglevodorodnye Gazy
 Kak Rasvotkeli Nefti i Neftnykh Stalkov. I.)
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DESCRIPTORS: *Petroleum, Solvents, Gases: Pres-
 sure, *Solubility, Hydrocarbons.

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text included) 11 refs.
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DESCRIPTORS: *Light, Absorption, Impurities,
*Copper compounds, *Oxides, *Photoconductivity,
Excitation.

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I. Zhuze, V. P.
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